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      5
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                  Additional enzyme-catalyzed reactions added to CASREACT
 NEWS
          Jun 28
                 ANTE, AQUALINE, BIOENG, CIVILENG, ENVIROENG, MECHENG,
 NEWS
          Jun 28
      8
                  and WATER from CSA now available on STN(R)
          Jul 12
 NEWS
                 BEILSTEIN enhanced with new display and select options,
      9
                  resulting in a closer connection to BABS
 NEWS 10
         Jul 30
                 BEILSTEIN on STN workshop to be held August 24 in conjunction
                  with the 228th ACS National Meeting
 NEWS 11 AUG 02
                  IFIPAT/IFIUDB/IFICDB reloaded with new search and display
                  fields
 NEWS 12
        AUG 02
                  CAplus and CA patent records enhanced with European and Japan
                  Patent Office Classifications
 NEWS 13
         AUG 02
                  STN User Update to be held August 22 in conjunction with the
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 NEWS 14
        AUG 02
                  The Analysis Edition of STN Express with Discover!
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                  Pricing for the Save Answers for SciFinder Wizard within
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         AUG 27
                  BIOCOMMERCE: Changes and enhancements to content coverage
 NEWS 17
                 BIOTECHABS/BIOTECHDS: Two new display fields added for legal
         AUG 27
                  status data from INPADOC
 NEWS 18
          SEP 01
                  INPADOC: New family current-awareness alert (SDI) available
 NEWS 19
         SEP 01
                 New pricing for the Save Answers for SciFinder Wizard within
                  STN Express with Discover!
          SEP 01
NEWS 20
                  New display format, HITSTR, available in WPIDS/WPINDEX/WPIX
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                 STN Patent Forum to be held October 13, 2004, in Iselin, NJ
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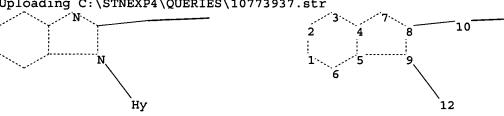
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chain nodes :

10 12

ring nodes :

1 2 3 4 5 6 7 8 9

ring/chain nodes :

11

chain bonds :

8-10 9-12 10-11

ring bonds :

1-2 1-6 2-3 3-4 4-5 4-7 5-6 5-9 7-8 8-9

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 4-7 5-6 5-9 7-8 8-9 9-12

exact bonds :

8-10 10-11

isolated ring systems :

containing 1:

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS

11:CLASS 12:Atom Generic attributes :

12:

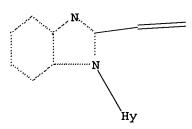
Saturation : Unsaturated Number of Carbon Atoms : less than 7 Type of Ring System : Monocyclic

L1 STRUCTURE UPLOADED

=> dis l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 sam

SAMPLE SEARCH INITIATED 15:05:28 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 2862 TO ITERATE

34.9% PROCESSED 1000 ITERATIONS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

> \*\*COMPLETE\*\* BATCH

PROJECTED ITERATIONS: 54032 TO 60448 PROJECTED ANSWERS: 95 TO 591

L2 6 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 15:05:33 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 55682 TO ITERATE

100.0% PROCESSED 55682 ITERATIONS

227 ANSWERS

6 ANSWERS

SEARCH TIME: 00.00.01

L3 227 SEA SSS FUL L1

=> file hcaplus

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13

L4 10 L3

=> s 14 and pd<march 1998

18823074 PD<MARCH 1998 (PD<19980300)

L5 8 L4 AND PD<MARCH 1998

=> dis 15 1-8 bib abs hitstr

L5 ANSWER 1 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1997:178231 HCAPLUS

DN 126:178961

TI Silver halide color photographic material containing sensitizing dye and magenta coupler

IN Nomya, Makoto; Ookusa, Hiroshi; Kawashima, Yasuhiko

PA Konishiroku Photo Ind, Japan

SO Jpn. Kokai Tokkyo Koho, 37 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

GI

- \* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT \*
- AB The title material, comprising a support coated with ≥1 photog. constituent layers, contains ≥1 sensitizing dye I [R11 = sulfoethyl; R12 = (substituted) alkyl, (substituted) alkenyl, (substituted) alkynyl; R13 = H, (substituted) alkyl, (substituted) aryl; Z12 = atoms required to form a (substituted) benzoxazole or naphthoxazole nucleus; X1 = counter ion; m = number required to control the charge of the mol.], ≥1 other sensitizing dye II [R21-24 = (substituted) alkyl, (substituted) alkenyl, (substituted) alkynyl, (substituted) aryl, (substituted) heterocycle; V, W, X, Y = H, electron-attractive group; X2 = counter ion; n = number required to control the charge of the mol.], ≥1 coupler III (R31 = H, substituent; R32 = Cl, alkoxy; R33 = substituent; R34-38 = H, halo; p = 1-5), and optional ≥1 compound IV (R41, R42 = H, alkyl, alkenyl, alkynyl, aryl, heterocycle; R43-45 H, substituent, R41 and R42, R43 and R44, and R44 and R45 may form a ring) in ≥1 of the layers. The material shows high sensitivity, low fog, and good storage stability.

IT 187037-38-3

RL: DEV (Device component use); USES (Uses) (silver halide color photog. material containing sensitizing dye, magenta coupler, and optional pyridine derivative)

RN 187037-38-3 HCAPLUS

CN 1H-Benzimidazolium, 2-[3-[1,3-dihydro-5-(propoxycarbonyl)-1-(2-pyridinyl)-3-(3-sulfopropyl)-2H-benzimidazol-2-ylidene]-1-propenyl]-5-(propoxycarbonyl)-1-(2-pyridinyl)-3-(3-sulfopropyl)-, inner salt, compd. with pyridine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 187037-37-2 CMF C41 H44 N6 O10 S2

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2

CRN 110-86-1 CMF C5 H5 N



L5 ANSWER 2 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1978:433837 HCAPLUS

DN 89:33837

TI Structure of molecules of polymethine dyes and their laser properties

AU Przhonskaya, O. V.; Tikhonov, E. A.

CS USSR

SO Optika i Spektroskopiya (1978), 44(3), 480-5 CODEN: OPSPAM; ISSN: 0030-4034

DT Journal

LA Russian

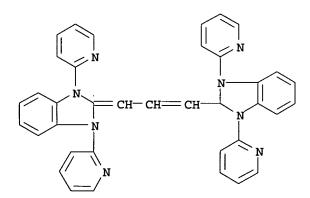
AB The results are presented of an investigation directed to the optimization of parameters of the active medium of lasers based on sym. polymethine dyes. The structural elements of these mols. which affect the value of the Stokes shift of the maximum of the absorption and luminescence bands, their halfwidths, and quantum yields were determined. The conclusions obtained permit the synthesis of a dye with a lower threshold and an increase in the range of tuning in a dispersion resonator.

IT 47857-88-5 66918-06-7

RL: PRP (Properties)
(laser properties of)

RN 47857-88-5 HCAPLUS

CN 1H-Benzimidazolium, 2-[3-(1,3-dihydro-1,3-di-2-pyridinyl-2H-benzimidazol-2-ylidene)-1-propenyl]-1,3-di-2-pyridinyl- (9CI) (CA INDEX NAME)



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 66918-06-7 HCAPLUS

CN 1H-Benzimidazolium, 1-ethyl-2-[3-[1-ethyl-1,3-dihydro-3-(2-pyridinyl)-2H-benzimidazol-2-ylidene]-1-propenyl]-3-(2-pyridinyl)- (9CI) (CA INDEX NAME)

## ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L5 ANSWER 3 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1975:24123 HCAPLUS

DN 82:24123

TI Two-photon absorption spectra of organic dye molecules

AU Aslanidi, E. B.; Tikhonov, E. A.

CS USSR

SO Optika i Spektroskopiya (1974), 37(4), 784-5 CODEN: OPSPAM; ISSN: 0030-4034

DT Journal

LA Russian

AB One- and 2-photon absorption spectra were given of Rhodamine 6G and imidocarbocyanine in alc. solns. by using the fluorescence method. The 2-photon absorption spectra of the both compds. showed 2 principal maximum, one coinciding with the vibronic transition of the short-wave wing of the long-wave one-photon absorption band and the other falling upon the region of one-photon transition to higher singlet states. The spectral dependence of 2-photon absorption probability was qual. discussed.

IT 54375-46-1

RL: PRP (Properties)

(photon absorption by, single and multi-)

RN 54375-46-1 HCAPLUS

CN 1H-Benzimidazolium, 2-[3-[1,3-dihydro-1,3-bis(3,4,5,6-tetrahydro-2-pyridinyl)-2H-benzimidazol-2-ylidene]-1-propenyl]-1,3-bis(3,4,5,6-tetrahydro-2-pyridinyl)-, iodide (9CI) (CA INDEX NAME)

• I-

## ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L5 ANSWER 4 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1974:522753 HCAPLUS

DN 81:122753

TI Comparative studies on washable and permanent optical brighteners derived from benzimidazole. I. Preparation of some benzimidazole derivatives and study of their properties

AU Salem, A. S. G.; Shawki, M.; Farag, A. A.; Selim, M. H.

CS Chem. Eng. Dep., Univ. Alexandria, Alexandria, Egypt

SO Kolorisztikai Ertesito (1974), 16(3/4), 46-57 CODEN: KOERA9; ISSN: 0023-2939

DT Journal

LA English

AB Benzimidazole compds. [I, R = OH, SO3H; R1,R2 = H, SO3H; R3 = H, Me, dichlorotriazinyl, chloro(sulfoanilino)triazinyl] were prepared, their solution in H2O, stability of the triazinyl derivs. in alkaline medium, and their rates of exhaustion were determined and showed that the application of I as fluorescent whiteners is possible. Thus, I(R = R1 = R2 = R3 = H) was dissolved in H2SO4 containing oleum and heated at 60.deg. for 45 min to give fluorescent whitener I(R = 5-SO3H) [52736-69-3]. The other I were similarly prepared

IT 52736-66-0P 52736-67-1P 52736-68-2P

52871-94-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 52736-66-0 HCAPLUS

CN 1H-Benzimidazole-5,7-disulfonic acid, 2,2'-(1,2-ethenediyl)bis[1-(4,6-dichloro-1,3,5-triazin-2-yl)- (9CI) (CA INDEX NAME)

HO3S
N
CH
CH
CH
CH
N
SO3H
SO3H
SO3H
$$N$$
C1

RN 52736-67-1 HCAPLUS

CN 1H-Benzimidazole-4,6-disulfonic acid, 2,2'-(1,2-ethenediyl)bis[1-(4,6-dichloro-1,3,5-triazin-2-yl)-5-hydroxy- (9CI) (CA INDEX NAME)

RN 52736-68-2 HCAPLUS

CN 1H-Benzimidazole-4,6-disulfonic acid, 2,2'-(1,2-ethenediyl)bis[1-[4-chloro-6-[(4-sulfophenyl)amino]-1,3,5-triazin-2-yl]-5-hydroxy- (9CI) (CA INDEX NAME)

RN 52871-94-0 HCAPLUS

CN 1H-Benzimidazole-5,7-disulfonic acid, 2,2'-(1,2-ethenediyl)bis[1-[4-chloro-6-[(4-sulfophenyl)amino]-1,3,5-triazin-2-yl]- (9CI) (CA INDEX NAME)

L5 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1972:541468 HCAPLUS

DN 77:141468

TI Synthesis of benzimidazole derivatives. V. Pyridylbenzimidazoles and cyanine dyes obtained from them

AU Zubarovskii, V. M.; Lepikhova, S. V.

CS Inst. Org. Khim., Kiev, USSR

SO Khimiya Geterotsiklicheskikh Soedinenii (1972), (5), 687-90 CODEN: KGSSAQ; ISSN: 0132-6244

DT Journal

LA Russian

AB Reacting N-ethyl-4-(2-pyridyl)-1,2-phenylenediamine with AcCl in PhMe solution gave 1-ethyl-2-methyl-5-(2-pyridyl)benzimidazole (I) [36635-98-0]. I was iodoethylated to 1,3-diethyl-2-methyl-5-(2-pyridyl)benzimidazolium monoiodide (II) [36635-99-1]. II was reacted with 3-ethyl-5-acetanilidomethylenerhodanine in HCONH2 containing NEt3 to give 3-ethyl-5-[2-[1,3-diethyl-5-(2-pyridyl)-2-benzimidazolinylidene]ethylidene]thiazolidine-2-thione-4-one (III) [36636-00-7] which absorbs light strongly at 521 nm. Similarly starting with substituted o-phenylenediamines other title dyes, such as IV which absorbs at 536 nm, were prepared

IT 38794-13-7P 38794-14-8P 38794-15-9P

RN 38794-13-7 HCAPLUS

CN 1H-Benzimidazolium, 1-ethyl-2-[3-[1-ethyl-1,3-dihydro-3-(2-pyridinyl)-2H-benzimidazol-2-ylidene]-1-propenyl]-3-(2-pyridinyl)-, iodide (9CI) (CA INDEX NAME)

• I-

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 38794-14-8 HCAPLUS

CN 1H-Benzimidazolium, 2-[3-(1,3-dihydro-1,3-di-2-pyridinyl-2H-benzimidazol-2-ylidene)-1-propenyl]-1,3-di-2-pyridinyl-, perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 47857-88-5 CMF C37 H27 N8

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2

CRN 14797-73-0

CMF Cl O4

RN 38794-15-9 HCAPLUS

CN 1H-Benzimidazolium, 5-chloro-2-[3-(5-chloro-1,3-dihydro-1,3-di-2-pyridinyl-2H-benzimidazol-2-ylidene)-1-propenyl]-1,3-di-2-pyridinyl-, iodide (9CI) (CA INDEX NAME)

• I-

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L5 ANSWER 6 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1969:526007 HCAPLUS

DN 71:126007

TI Benzimidazole carbocyanines

IN Gandino, Mario; Merli, Paolo; Turilli, Oreste

PA Ferrania Societa per Azioni

SO U.S., 4 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 3443955	A	19690513	US 1966-551512	19660520 <
BE 678673	A	19660901	BE 1966-678673	19660330 <
PRAI IT 1965-17465		19650521		

GI For diagram(s), see printed CA Issue.

AB The title compds. (I) are prepared from II. Thus, 2-aminopyridine (QNH2) is treated with 2,4,5-Cl3C6H2NO2 to give 4,5,2-Cl2(O2N)C6H2NHQ (m. 156°) which is converted to 5,6-dichloro-2-methyl - 1 - (2-pyridyl)benzimidazole (m. 127-9°) and quaternized to give II. A mixture of 2.17 g. II, 25 ml. PhNO2, and 5 ml. HC(OEt)3 is refluxed for 3 hrs. to give I (X = NQ, R = R' = Cl, Y = iodine], λmax 5240 A. II and 2-(formylmethylene)-3-ethyl - 5-methoxybenzoselenazole give I (X = Se, R = OMe, R1 = H, Y = ClO4), λmax 5470 A. Similarly prepared are the following, I (Y = iodine) [X, R, R1, and λmax (A.) given]: S, Me, Me, 5390; Se, Me, Me, 5430; S, Cl, H, 5300; Se, Me, H, 5380; S, Me, H, 5350. Similarly were prepared III (λmax 4720 A.) and IV, λmax 4970 A.

RN 18018-26-3 HCAPLUS

CN Benzimidazolium, 5,6-dichloro-2-[3-[5,6-dichloro-1-ethyl-3-(2-pyridyl)-2-benzimidazolinylidene]propenyl]-3-ethyl-1-(2-pyridyl)-, iodide (8CI) (CA INDEX NAME)

• I-

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE RN 18018-27-4 HCAPLUS

CN Benzimidazolium, 5,6-dichloro-2-[3-(5-chloro-3-ethyl-2-

benzothiazolinylidene)propenyl]-3-ethyl-1-(2-pyridyl)-, iodide (8CI) (CA INDEX NAME)

• I-

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 18018-29-6 HCAPLUS

CN Benzimidazolium, 5,6-dichloro-3-ethyl-2-[3-(1-ethyl-2-pyrrolidinylidene)propenyl]-1-(2-pyridyl)-, iodide (8CI) (CA INDEX NAME)

• I-

# ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L5 ANSWER 7 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1969:440236 HCAPLUS

DN 71:40236

TI Benzimidazacarbocyanines

IN Gandino, Mario; Baldassarri, Agostino

PA Ferrania Societa per Azioni

SO Fr., 4 pp.

CODEN: FRXXAK

DT Patent

LA French

FAN.CNT 1

	<del></del>				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	FR 1525450		19680517		<

DE 1569845 DE GB 1191534 GB

PRAI IT

19660518

GI For diagram(s), see printed CA Issue.

AB The title dyes (I) are prepared in improved yield and (or) rate by condensation with HC(OEt)3 in 1-C10H7Cl. Thus, 3 g. 1,3-diethyl-2-methyl-5,6-dichlorobenzimidazolium iodide was dissolved in 30 ml. 1-C10H7Cl, treated with 3 ml. HC(OEt)3, refluxed for 30 min., cooled, diluted with Et20, washed (Et20) until the washings were colorless, and washed on the filter with H2O at 50°, followed by MeOH, to give 1 g. (40%) I (R1 = Et, R2 = H, R3 = R4 = C1, X = iodide), small bronzy prisms (MeOH), Amaximum (EtOH) 517 mμ. A 2-hr. reaction in PhNO2 gave only 30% yield. Similarly obtained were the following I [R1, R2, R3, R4, X, reflux time in hrs., color (solvent),  $\lambda$ maximum in m $\mu$ , % yield, and % yield in Ph-NO2 (time in hrs.) given]: Et, H, H, Cl, iodide, 0.5, brilliant red (EtOH), 507, 32, 24 (1.5); Et, H, H, Ac, iodide, 1, green (EtOH), 521, 30, 24 (2); AcOCH2CH2, H, Cl, Cl, Br, 0.67, green (EtOH), 519, 36 27 (1); Et, H, H, NO2, iodide, 1, blue-violet (MeOH), 540, 59, 44.5 (3); Et, Br, H, Br, iodide, 1, amaranthine (MeOH), 511, 39, 15 (4); Et, H, H, H, iodide, 2, red-violet (MeOH), 500, 29, 16 (4); 2-pyridyl, H, Cl, Cl, iodide, 1, green-gold (MeOH), 525, 33.5, -; Ph, H, H, MeO, iodide, 3, violet (EtOH-Et2O), 519, 23.5, -; Et, H, H, Me, iodide, 6, red (EtOH), 523, 39,

IT 18018-26-3P

RL: IMF (Industrial manufacture); PREP (Preparation)
 (preparation of)

RN 18018-26-3 HCAPLUS

CN Benzimidazolium, 5,6-dichloro-2-[3-[5,6-dichloro-1-ethyl-3-(2-pyridyl)-2benzimidazolinylidene]propenyl]-3-ethyl-1-(2-pyridyl)-, iodide (8CI) (CA INDEX NAME)

• I-

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L5 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1968:115712 HCAPLUS

DN 68:115712

TI Cyanine dyes from 1-(2-pyridyl)-2-methylbenzimidazoles

IN Gandino, Mario; Merli, Paolo; Turilli, Oreste

PA Ferrania Societa per Azioni

SO Fr., 5 pp. CODEN: FRXXAK

DT Patent LA French

FAN.CNT 1

PRAI IT 19650521

GI For diagram(s), see printed CA Issue.

- AB 5,6-Dichloro-2-methyl-1-(2-pyridyl)benzimidazole (I) is a new intermediate for photographic sensitizing dyes of the general formula II, where X is S, Se, or N (2-pyridyl-substituted). A solution of 226 g. 2,4,5-Cl3C6H2NO2 and 169 g. 2-aminopyridine (III) is heated at 145° for 96 hrs., cooled, treated with 5 l. aqueous 15% NaOH, and distilled to remove III to give 4,5-dichloro-2-nitro-N-(2-pyridyl)aniline (IV), red-brown crystals, m. 156° (EtOH). A solution of 28.4 g. IV and 30 ml. HOAc is treated portionwise at 70-80° with 18.5 g. Zn powder, stirred for 2 hrs., treated with 20 ml. Ac20, refluxed for 1 hr., filtered hot, cooled, made alkaline with aqueous NH4OH, and extracted with Et2O to give I, b22 290-330°, m. 127-9° (ligroine). A mixture of 2.78 g. I and 3 ml. EtI is heated in a sealed tube at 100° for 8 hrs., cooled, and the solid triturated with a mixture of Me2CO and Et2O to give I.EtI (V). A mixture of 2.17 g. V, 25 ml. PhNO2, and 5 ml. CH(OEt)3 is refluxed for 3 hrs., cooled, precipitated with Et20, and recrystd. from EtOH to give II [X = 2-pyridyl-substituted N, R = R1 = Cl, Y = iodide],  $\lambda$ maximum 524 nm. A mixture of 2.17 g. V, 1.4 g. 2-(aldomethylene)-3-ethyl-5methoxybenzoselenazole, and 20 ml. pyridine is refluxed, treated with 2 ml. Ac20, cooled, poured into Et20, and the precipitate dissolved in Et0H and precipitated with NH4ClO4 to give II (X = Se, R = H, R1 = MeO, Y = ClO4),  $\lambda$ maximum 547 nm. Similarly, other II (Y = iodide) are prepared (X, R, R1, and λmaximum in nm. given): S, Me, Me, 539; Se, Me, Me, 543; S, H, Cl, 530; Se, H, Me, 538; S, H, Me, 535. Also prepared is the carbocyanine dye from V and 2-(aldomethylene)-1-ethylpyrrolidine ( $\lambda$ maximum = 472 nm.) and the merocyanine dye from V and 5-(acetanilidomethylene)-3-ethyl-2thio-4-oxazolidinone (λmaximum 497 nm.).
- RN 18018-26-3 HCAPLUS
- CN Benzimidazolium, 5,6-dichloro-2-[3-[5,6-dichloro-1-ethyl-3-(2-pyridyl)-2-benzimidazolinylidene]propenyl]-3-ethyl-1-(2-pyridyl)-, iodide (8CI) (CA INDEX NAME)

• I-

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 18018-27-4 HCAPLUS

CN Benzimidazolium, 5,6-dichloro-2-[3-(5-chloro-3-ethyl-2-benzothiazolinylidene)propenyl]-3-ethyl-1-(2-pyridyl)-, iodide (8CI) (CA INDEX NAME)

• I-

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 18018-29-6 HCAPLUS

CN Benzimidazolium, 5,6-dichloro-3-ethyl-2-[3-(1-ethyl-2-pyrrolidinylidene)propenyl]-1-(2-pyridyl)-, iodide (8CI) (CA INDEX NAME)

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### ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

=> s 14 not 15

2 L4 NOT L5

=> dis 16 bib abs

L6 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:792334 HCAPLUS

DN 135:344480

ΤI Preparation of benzimidazole cyclooxygenase-2 inhibitors

Okumura, Yoshiyuki; Murata, Yoshinori; Mano, Takashi IN

PA Pfizer Inc., USA

SO U.S., 29 pp.

CODEN: USXXAM

DT Patent

LΑ English

FAN.	CNT 2				•
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
			<b>-</b>		
ΡI	US 6310079	B1	20011030	US 1999-244875	19990205
	US 2003013886	<b>A1</b>	20030116	US 2001-924351	20010808
	US 6713482	B2	20040330		
PRAI	WO 1998-IB164	W	19980211		
	US 1999-244875	A3	19990205		
os	MARPAT 135:344480				
GI					

$$\begin{bmatrix} x^2 \end{bmatrix}_n \xrightarrow{N} CR^3 = CR^2 - R^1$$

$$Ar \xrightarrow{} \begin{bmatrix} x^1 \end{bmatrix}_m$$

AB The title compds. [I; Ar = 6-membered monocyclic heteroaryl having one N

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atom; X1, X2 = halo, alkyl, OH, etc.; R1 = (un)substituted Ph, 5-membered monocyclic heteroaryl; R2, R3 = H, halo, alkyl, etc.; or R1 and R2 can form, together with the carbon atom to which they are attached, a cycloalkyl ring; m = 0-5; n = 0-4] and their pharmaceutically acceptable salts, useful as analgesics and anti-inflammatory agents, were prepared Thus, refluxing N-(2-pyridyl)-o-phenylenediamine with (E)-cinnamoyl chloride in PhMe afforded 41% (E)-I [Ar = 2-pyridyl; X1, X2 = H; R1 = Ph; R1, R2 = H]. Some compds. I showed low IC50 values of 0.01-1.0  $\mu$ M against COX-2.

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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